



VALBRUNA

SLATER STAINLESS, INC.

2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2900 - FAX 260.434.2801

Report Number: **5379620**

Certified on Sep 22, 2017 Page 1 of 2

Order I.D. 1700913 014	Order Date 4/27/17	Commodity Code	C193764		
Dim 1 6.2500	Dim 2 .0000	Dim 3 .0000			
Product Shape Rounds	Product Surface HR & Rough Turned		Customer Grade 316/316L		
Length (Inches) 120.000 Min.	Bill of Lading # 168.000 Max.	Weight 430564	Melt Date: 2/27/17		

Ship To
VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Sold To
VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Lifts: 0028

Condition A	NACE MR0175/ISO 15156-3 2009	NACE MR0103-2012
QQ-S-763E	ASTMA 276-17	ASTMA 479-17
ASMESA 182.13 Chem Only	ASMESA 479-13	AMS 5648M
AMS 5653H	EN 10272 Feb. 2008	

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.014	1.75	.029	.028	.53	16.64	10.01	2.00	.50	.15	.079

BRINELL Type A device E10-15a

HBW
146

ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL (4d)	%EL(5d)	%RA
81900	37800	42600	57.2	52.6	79.9

MACRO ASTM E340-15/E381-01(12)

MACRO
OK

GRAIN SIZE ASTM E112-13

GRAIN SIZE	Etchant	Magnification X
7	Oxalic	100

ASTM A262-15 PR E(A Utilized)

OXALIC	Etchant	Magnification X	QUENCH	SENS(F)	SENS(HR)
OK	Oxalic	500	Air	1200	1.50

ASTM A262-15 E 180deg, .25"dia

BEND TEST	QUENCH	SENS(F)	SENS(HR)
OK	Air	1200	1.50

Solution annealed at 1900F min. and water quenched (heating time & temp appropriate for optimum quality).

Chemical testing to one or more of the listed ASTM methods:

E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

No mercury or low melting alloy contamination. No weld repair.

Material melted in Italy, manufactured in the United States.

Material conforms to listed specifications. DFARS compliant. Our heat treat furnaces use air atmosphere.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info.

I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services: *Tad Landwehr*

email: TLandwehr@valbruna.us

Tad Landwehr

INS



VALBRUNA

SLATER STAINLESS, INC.
2100 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.2801

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Certified on Sep 22, 2017 Page 2 of 2

Order I.D. 1700913 014	Order Date 4/27/17	Commodity Code				<i>C193704</i>
Dim 1 6.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 272923	Customer I.D. 002476	Customer Purchase Order 704006330	
Product Shape Rounds	Product Surface HR & Rough Turned		Customer Grade 316/316L			
Length (Inches) 120.000 Min.	168.000 Max.	Bill of Lading # 430564	Weight	Melt Date: 2/27/17		

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Quality system is compliant with ISO 9001:2008. Produced in accordance with EN 10204 3.1.

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Manager Laboratory Services:

Tad E Landwehr

email: TLandwehr@valbruna.us

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